

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#14
4/29/03
DS

In re PATENT APPLICATION of
Inventor(s): RAFIE, Manouchehr S.
SHAH, Tushar
HWANG, Syang-Myau
LU, Jun

Group Art Unit:

Appln. No.: 09 / 764202

Examiner:

series code ↑ ↑ serial no.
Filing Date: 17th January 2001

Atty. Dkt: P / AF/P9239US
M# / Client Ref.

Title: Carrier Phase Recovery System for Adaptive Burst Modems and Link Hopping Radio Networks

**POWER OF ATTORNEY FROM ASSIGNEE
AND REVOCATION OF PRIOR POWERS**

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Hon. Commissioner of Patents
Washington, D.C. 20231

APR 25 2003

Technology Center 2600

Sir:

The undersigned, person, whose title is indicated below, is empowered to sign this document on behalf of the assignee of record in the above-entitled patent application. The chain of title from the original owner to the assignee is recorded as follows:

1. Date	<u>08/12/2002</u>	, Reel	<u>013178</u>	, Frame	<u>0968</u>
2. Date	<u>08/19/2002</u>	, Reel	<u>013199</u>	, Frame	<u>0175</u>
3. Date	<u></u>	, Reel	<u></u>	, Frame	<u></u>

A copy of Assignment from Caly Networks to Radiant Networks PLC is enclosed. The undersigned assignee hereby revokes all previous powers and appoints Pillsbury Winthrop LLP, Intellectual Property Group, P.O. Box 10500, McLean, VA 22102, telephone (703) 905-2000 (to whom all communications about this application are to be directed), and the below named persons (of the same address), individually and collectively, our attorneys to prosecute this patent application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent:

G. Lloyd Knight	17698
George M. Sirilla	18221
Dale S. Lazar	28872
Glenn J. Perry	28458
G. Paul Edgell	24238
David A. Jakopin	32995
Mark G. Paulson	30793
Paul T. Bowen	38009
Richard H. Zaitlen	27248
Roger R. Wise	31204

Jack S. Barufka	37087
Adam R. Hess	41835
William P. Atkins	38821
Paul L. Sharer	36004
Robin L. Teskin	35030
Anthony L. Miele	34393
Robert J. Walters	40862
Brian J. Beatus	38825
John R. Wetherell	31678
Steven Moore	35959
Jeffrey D. Karceski	35914

Radiant Networks Plc

Assignee

By Ivan Carle

Name: IVAN CARLE

Title: CO. SECRETARY

Date 11-10-02



2631

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of

Group Unit Unknown

Inventor(s): RAFIE et al.

Appln. No. 09/764,202

Examiner: Unknown

Atty. Dkt: PM /302386 AF/JG/P9239US

Filed: January 17, 2001

M# / Client Ref.

Title: CARRIER PHASE RECOVERY SYSTEM FOR ADAPTIVE BURST MODEMS
AND LINK HOPPING RADIO NETWORKS

April 22, 2003

**SUBMISSION OF POWER OF ATTORNEY FROM ASSIGNEE
AND REVOCATION OF PRIOR POWERS**

Asst. Commissioner of Patents and Trademarks
Washington, D.C. 20231

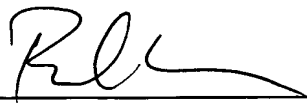
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Sir:

Applicants hereby submit herewith a Power of Attorney from Assignee and
Revocation of Prior Powers for the above-identified application.

Respectfully submitted,

PILLSBURY WINTHROP LLP

By: 
Paul T. Bowen
Reg. No. 38,009
Telephone: 703 905-2020
Facsimile: 703 905-2500

P.O. BOX. 10500
McLean, Virginia 22102
703 905-2000

**RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLY**

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. CALY NETWORKS (dba CALY CORPORATION)

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO**RECEIVED**

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: RADIANT NETWORKS PLC

APR 25 2003

ADDRESS: The Mansion, Chesterford Park, Little Chesterford, Essex, CB10 1XL, United Kingdom

Technology Center 2600

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☐ ORIGINAL ☒ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: August 13, 2002

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
09/764,202	302386	RAFIE et al.			

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
P.O. Box 10500 McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE DUE: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 302386

AF/JG/P9239US

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT

NUMBER: 03-3975

UNDER ORDER NO

11765

302386

MATTER NO.

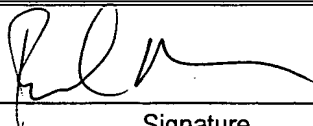
CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



Signature

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

7

Attorney: Paul T. Bowen

Reg. No. 38009

Date: April 22, 2003

Atty/Sec: PTB/RSP

TEL: (703) 905-2020

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

ATTACHMENT ONLY

CERTIFIED AS A TRUE
COPY OF THE ORIGINAL

[Signature]
21st FEB 200
AD AM FLINT
Chartered Patent Attorney
European Patent Attorney

EXHIBIT B

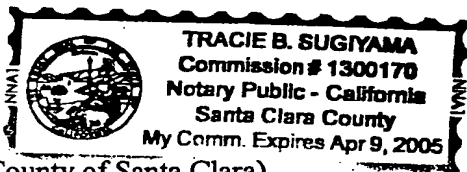
ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

CALY CORPORATION, a Delaware Corporation, located at 295 Santa Ana Court, Sunnyvale, California, which also trades under the name **CALY NETWORKS**, in consideration of the sum of \$10 (ten US dollars) and other good and valuable consideration the safe receipt and sufficiency of which is hereby acknowledged, hereby assigns to **RADIANT NETWORKS PLC**, a company registered under the laws of England and Wales, located at The Mansion, Chesterford Park, Little Chesterford, Essex, CB10 1XL, United Kingdom, the entire right, title and interest for the United States of America and its territorial possessions, and all foreign countries including all rights of priority, in inventions in the patents identified in the attached Schedule, and in and to all Letters Patents of the United States and all foreign countries which may or shall be granted on said inventions, or any parts thereof, or any divisional, continuing, reissue or other applications based in whole or in part thereon.

CALY CORPORATION agrees to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to **RADIANT NETWORKS PLC**, to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

CALY CORPORATION does hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any equivalent officer of any equivalent Patent and Trademarks Registry in any relevant jurisdiction to issue such Letters Patent as shall be granted upon said inventions or applications based thereon to said **RADIANT NETWORKS PLC**, its successors and assigns.

Witness my hand and seal this 13 day of August 2002.



County of Santa Clara)
State of California)

CALY CORPORATION

Name:
Title:

[Signature]
CFO

Then personally appeared the above named Kevan Nasser, the Chief Financial Officer of Caly Corporation, and acknowledged the foregoing act to be his free act and deed, before me, this 13th day of August 2002.

[Signature]
Notary Public

My commission expires: April 9, 2005



DECLARATION OF ACCEPTANCE

Buyer hereby agrees to this assignment of the listed patents and patent applications from Seller and applies for recording of this Assignment in the registers of the corresponding Patent offices.

Witness my hand and seal this 13th day of August, 2002.

RADIANT NETWORKS PLC

By: [Signature]

Title: Chief Executive Officer

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SCHEDULE to ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

CALY-001 (& -002):	Broadband Wireless Mesh Topology Networks	
Country	Application No.	Date
US	09/187665	05.11.98
	60/105880	27.10.98
	60/105476	23.10.98
WO	PCT/US 99/24585	20.10.99
BR	9913999-5	21.03.01
CN	99811658.0	02.04.01
EP	99971180	09.02.01
EP	98123485.9	24.12.98
HK	02100837.5	04.02.02
IL	142615	16.04.01
JP	578964/2000	17.04.01
KR	10-2001-7004520	10.04.01
RU	2001113741	22.05.00

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CALY-003 (abandoned):	Switched Array Antenna for Broadband Wireless Networks	
Country	Application No. and Date	
US	60/120420	16.02.99

CALY-004:	Communications Protocol for Packet Data Particularly in Mesh Topology Wireless Networks	
Country	Application No.	Date
US	09/328105	08.06.99 (granted as US6363062)
WO	PCT/US 00/15482	05.06.00
CA	2376183	04.12.01
CN	00808585.4	07.12.01
EP	00101618.7	28.01.00
IL	146722	25.11.01
JP	502248/2001	07.12.01
KR	10-2001-7015785	07.12.01
TW	89111129	08.06.00

CALY-005/6:	Spatially Switched Router for Wireless Data Packets	
Country	Application No.	Date
US	09/433542	03.11.99
	09/417416	13.10.99
WO	PCT/US 00/27959	10.10.00
CA	<i>No. not known</i>	11.04.02
CN	<i>No. not known</i>	N/A
EP	00109061.2	28.04.00
FI	20020695	11.04.02
IL	149083	11.04.02
JP	530265/2001	11.04.02
KR	10-2002-7004783	13.04.02
TW	89121436	23.10.00

CALY-007/012:	Multi-path Dynamic Routing Algorithm	
Country	Application No.	Date
US	10/056178	22.01.02
	09/589631	07.06.00
WO	PCT/US 01/16631	22.05.01
TW	90113795	07.06.01

CALY-010:	Enclosure for Microwave Radio Transceiver with Integral Refractive Antenna	
Country	Application No.	Date
US	09/927300	10.08.01
PCT	No. Not Known	Filed on August 7, 2002

CALY-011:	Enclosure for Integrated Wireless Node	
Country	Application No.	Date
US (Design patent)	29/137359	16.02.01 (granted as USD456811)

10506/3: 10506/9:	Carrier Phase Recovery System for Adaptive Burst Modems and Link Hopping Radio Networks	
Country	Application No.	Date
US	09/764202	17.01.01
WO	PCT/US 02/01153	16.01.02

10506/5: 10506/8:	Join Process Method for Admitting a Node to a Wireless Mesh Network	
Country	Application No.	Date
US	09/699582	30.10.00
WO	PCT/US 01/51349	25.10.01

10506/6: 10506/10:	Adaptive Equalizer System for Short Burst Modems and Link Hopping Radio Networks	
Country	Application No.	Date
US	09/849687	04.05.01
WO	PCT/US 02/13878	02.05.02

10506/7:	A Combined Digital Adaptive Pre-distorter and Pre-equalizer System for Modems in Link Hopping Radio Networks	
Country	Application No.	Date
US	09/964200	25.09.01